

IMAGE TRANSFORM METHOD FOR OBTAINING EXPANDED IMAGE DATA,
IMAGE PROCESSING APPARATUS AND IMAGE DISPLAY DEVICE THEREFOR

Abstract

It is an object of the present invention to output a clear,
5 expanded image wherein step-shapes or chain-shapes of
oblique lines are reduced, distortion is eliminated and no
constituent lines of fonts or graphics are missing. An
image transform method, for transforming original input
10 image data into image data expanded by a ratio represented
by a rational number or an integer, comprises: a vertical
and horizontal interpolation unit, for reducing correlation
in the vertical and horizontal directions of interpolated
image data linearly expanded from an original image data
input unit, and for generating first expanded image data; an
15 oblique interpolation unit, for performing linear
interpolation, based on correlation with a target pixel
constituting the original image data and neighboring pixels
arranged in oblique directions, using the neighboring pixels
to generate second expanded image data; and a final result
20 generator for employing the first expanded image data and
the second expanded image data to generate a final image.

[Selected Drawing] Fig. 1